

## CLAIMS

What is claimed is:

1. An electrospray device comprising:
  - a. a substrate;
  - b. a first channel communicating at one end with an exit orifice at a surface of the substrate;
  - c. a recess formed in the surface of the substrate so as to surround said first channel, thereby forming a nozzle from which an electrospray may be emitted.
2. The device of claim 1, further comprising a plurality of additional channels communicating at one end with an exit orifice of the same surface of the substrate as that of the first channel so as to form a planar array of channels; each channel having a recess formed in the surface of the substrate so as to form a nozzle from which an electrospray may be emitted.
3. The device of claim 1, wherein the substrate is monolithic.
4. The device of claim 1, wherein the substrate is monolithic silicon.
5. The device of claim 1, wherein the cross-sectional area of the nozzle is less than 50,000 square micrometers.